## Unit 8 Lesson 5 Cumulative Practice Problems

1. Three sets of data about ten sixth-grade students were used to make three dot plots. The person who made these dot plots forgot to label them. Match each dot plot with the appropriate label.
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	1. Dot Plot A
	2. Dot Plot B
	3. Dot Plot C
	4. Ages in years
	5. Numbers of hours of sleep on nights before school days
	6. Numbers of hours of sleep on nights before non-school days
1. The dot plots show the time it takes to get to school for ten sixth-grade students from the United States, Canada, Australia, New Zealand, and South Africa.
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	1. List the countries in order of *typical travel times*, from shortest to longest.
	2. List the countries in order of *variability in travel times*, from the least variability to the greatest.
1. Twenty-five students were asked to rate—on a scale of 0 to 10—how important it is to reduce pollution. A rating of 0 means “not at all important” and a rating of 10 means “very important.” Here is a dot plot of their responses.
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* Explain why a rating of 6 is *not* a good description of the center of this data set.
1. Tyler wants to buy some cherries at the farmer’s market. He has $10 and cherries cost $4 per pound.
	1. If $c$ is the number of pounds of cherries that Tyler can buy, write one or more inequalities or equations describing $c$.
	2. Can 2 be a value of $c$? Can 3 be a value of $c$? What about -1? Explain your reasoning.
	3. If $m$ is the amount of money, in dollars, Tyler can spend, write one or more inequalities or equations describing $m$.
	4. Can 8 be a value of $m$? Can 2 be a value of $m$? What about 10.5? Explain your reasoning.
* (From Unit 7, Lesson 10.)



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